



Army Environmental Programs IT Modernization

Headquarters Army Environmental System (HQAES)



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Army Environmental Programs - Overview

Army investment in the environment ~ \$1.62B / year

OACSIM Business Groups

Base Operations & Services
Morale, Welfare & Recreation
Installation Safety & Occupational Health
Executive Management
Housings & Furnishings
Environment
Real Property Asset Management
Installation Geospatial
Military Construction
Public Works

Environmental Program Group

~ \$664M / yr

Operational
Compliance

Environmental Quality (EQ)

✓ **Environment**

~ \$956M / yr

“Past sins”

Environmental Cleanup (EC)

-
- ✓ **Program Support** - Key management functions that support execution
 - ✓ **Program Initiatives** – Key initiatives that sustain Army operations and training.



Army Environmental Program Areas

Program Groups and Lines of Business

☐ **Environmental Quality**

- Clean Air
- Clean Water / Safe Drinking Water
- Hazardous Waste / Material Release
- National Environmental Policy Act (NEPA)
- Threatened & Endangered Species
- Integrated Natural Resources Planning
- Conservation Reimbursable Programs
- Pest Management
- Archaeological Site Protection
- Historic Building Preservation
- Native American Affairs
- Integrated Cultural Resources Planning

☐ **Environmental Cleanup**

- Active Sites Cleanup
- BRAC Cleanup
- Compliance Related Cleanup (incl. overseas)

Program Support and Initiatives

☐ **Environmental Program Support**

- Environmental Mgmt. Systems (EMS)
- Environmental Performance Assessment System (EPAS)
- Environmental Quality Reporting
- Environmental Cleanup & Liabilities Reporting

☐ **Environmental Program Initiatives**

- Emerging Contaminants
- Range Assessments



AEP Business Needs & Benefits

- Comply with Environmental Liabilities Recognition, Validation, and Reporting requirements
- Meet DoD Information Technology certification standards
- Conduct program analysis & evaluation for optimizing programming, planning, and budgeting
- Prevent time consuming verification and costly rework of data entered in multiple systems
- Eliminate redundant/obsolete data collection, and add new data requirements
- Monitor program performance to meet Army Environmental Program priorities
- Use information to prepare Defense Environmental Programs Annual Report to Congress
- Use information to prepare for semi-annual DoD Environmental Program Management Reviews
- Commands and Installations also benefit for their program execution management
- Reduce data calls and improve delivery of information to customer needs



Outputs from BPR/BEA/IT Modernization

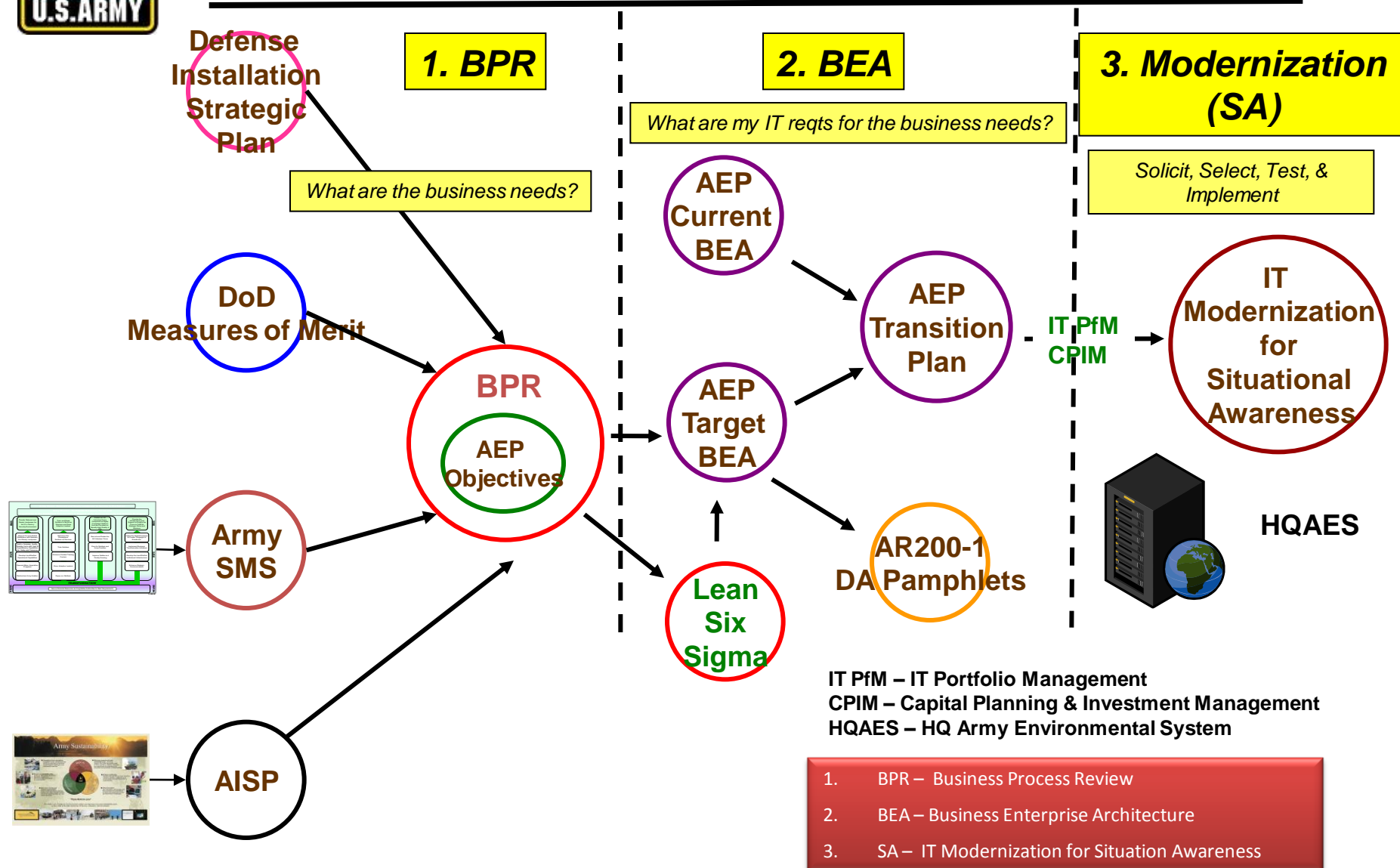
- ❑ AEP Business Process Review (Reengineering)
 - Defined current and future Lines of Business;
 - Developed Army Environmental Program Priorities;
 - Program Priorities set the Resource Requirements

- ❑ AEP Business Enterprise Architecture
 - AEP Program Process models & Data models which serve as blue prints for future refinements;
 - Build Interface with the Army's Enterprise Business System

- ❑ AEP IT Modernization - HQAES IT System
 - Serve as an authoritative core data base that will provide information on demand to manage environmental programs at Headquarters, Commands and Installations;
 - Serve as a tool for program performance management and planning;
 - Affords improved situational awareness at all command levels.



Army Environmental Programs (AEP) Business Transformation Workflow





OACSIM View of I&E Business Portfolio

Installations & Environment Domain

Base Operations & Services

Morale, Welfare & Recreation

Installation Safety & Occupational Health

Executive Management

Housing & Furnishings

Environment

Real Property Asset Management

Installation Geospatial

Military Construction

Public Works



Headquarters Army IT Modernization

Legacy System Information:

Army Environmental Database (AEDB): The current system being used to collect Army ENV data and is the current DB of record. Includes cleanup, restoration, & environmental quality (-C,-R,-EQ)

Environmental Restoration Information System (ERIS): The current systems of record for Army restoration & field data including geological, chemical, & geographical.

Reimbursable Program Tracking System (RPTS): The current system of record used for tracking reimbursable transactions.

Environmental Performance Assessment System (EPAS): The current system of record that collects records of environmental performance assessments and corrective actions.

Repository of Army Environmental Documents (READ): The current repository and DB of record for documents related to cleanup and NEPA activities.



Army Environmental Systems

Legacy to Future

*LEGACY SYSTEMS:

- AEDB
- RPTS
- READ
- ERIS
- EPAS

- STEP
- UBANGS

HQAES:

FUTURE ENTERPRISE
SYSTEM BASED ON BEA

* Not complete



Headquarters Army IT Modernization

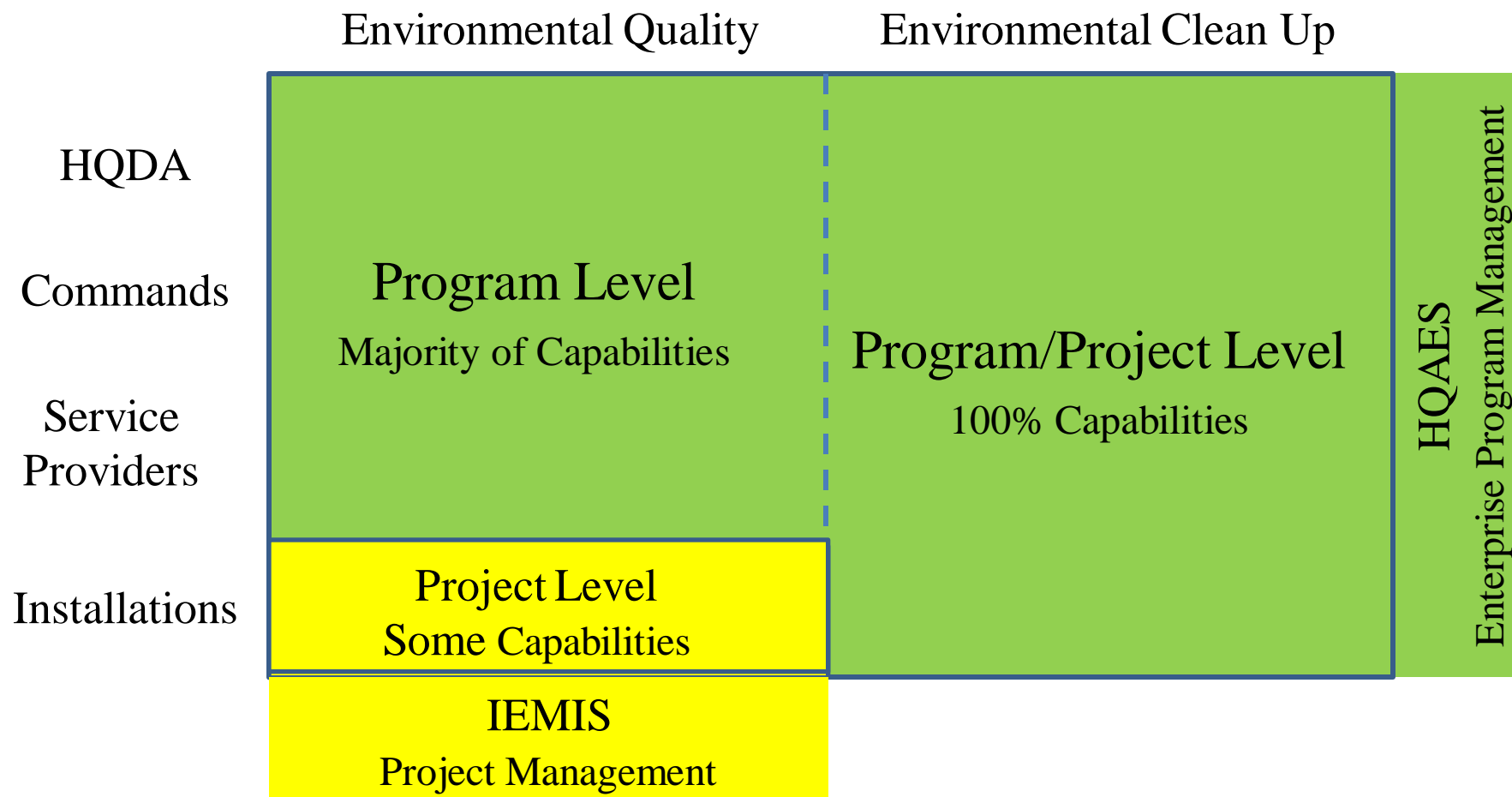
The Headquarters Army Environmental System (HQAES) will be the enterprise information system enabling the Army to collect, analyze, and report environmental data in an efficient and effective manner. It allows assignment of appropriate resources and report AEP success .

HQAES has three major components:

- Environmental Cleanup Program:** This is an important component for the AEP, and consists of the overall program management and initiatives generated in order to address contamination and any Army's Army Installation Worldwide.
- Environmental Quality (EQ):** This AEP component manages all environmental quality programs with the purpose of improving environmental compliance, conservation, pollution prevention, and associated initiatives.
- Environmental Performance Assessment (EPAS):** This is an initiative that assesses, reports, and analyzes the performance of environmental compliance programs. It also assesses the effectiveness of the entire environmental management system.



Headquarters Army IT Modernization





Headquarters Army IT Modernization

Oct 09 – Feb 10 -- HQAES System Requirements Specifications (SRS) Developed

Mar 10 -- Completed SRS

Apr 10 -- Phase 2 Acquisition package at NCRCC

Sep 10 -- Award expected

Oct 10 – Sep 12 – HQAES System Development



Headquarters Army IT Modernization

Partial list of Essential External Interfaces:

- **Army Mapper – Installation Geographic Information & Services (IGIS)**
- **Headquarters Installation Information System (HQIIS)**
- Knowledge Based Corporate Reporting System (KBCRS)
- General Fund Enterprise Business System (GFEBS)
- Installation Status Report (ISR)
- Single Army Logistics Enterprise System (SALE)
- **Army Knowledge Online (AKO)**
- Status Tool for the Environment

*** Denotes critical initial systems**



Headquarters Army IT Modernization

Lessons Learned:

- Single Contractor award for both spec/system development.
- Agile and combined development; must be an iterative process.
- Earlier PEO-EIS oversight by Enterprise Solutions Directorate (CECOM-ESD) using an executed support agreement.
- Bridging the gap of experienced SMEs in respective LOBs to new technology (e.g. transitioning, educating on breadth of capability potential.
- Include capturing the installation level project capabilities from the beginning for data quality/integrity.
- Better coordination with system owners whom we are interfacing.



QUESTIONS?



BACK UP SLIDES



Army Environmental Programs Management Process & Governance





Enterprise Systems – Collaborative Systems

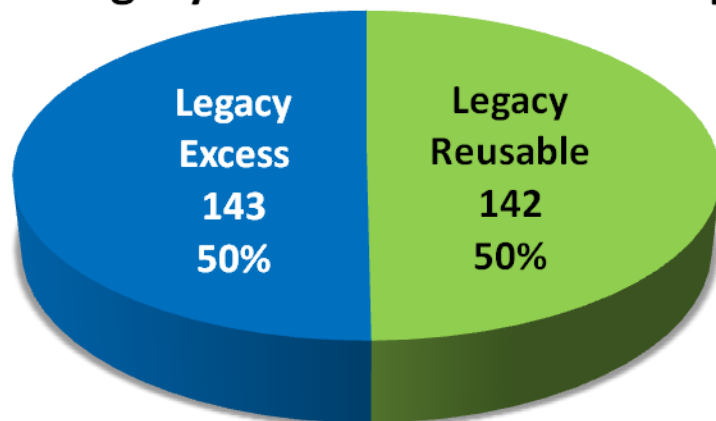
	I&E Enterprise Systems	Collaborative Systems
HQDA	HQIS, HQAES Geospatial, etc.	GFEBs, SALE, KBCRS, etc.
Commands		IMCOM on Line, etc.
Service Providers (AEC, USACE, CHPPM)	OTHER	RACER
Installations	IEMIS, etc.	OTHER



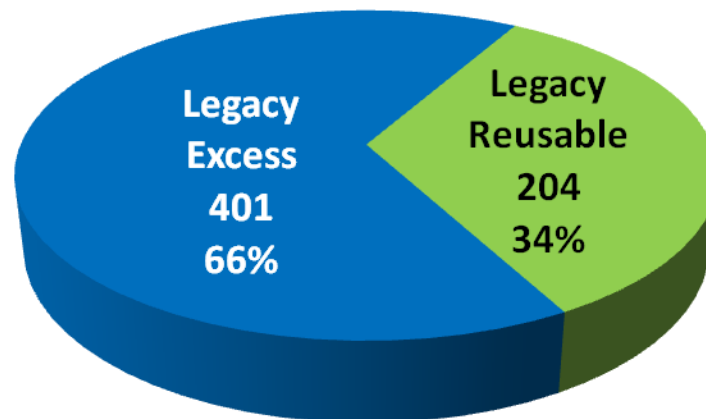
HQ AES Entities

Legacy to Target

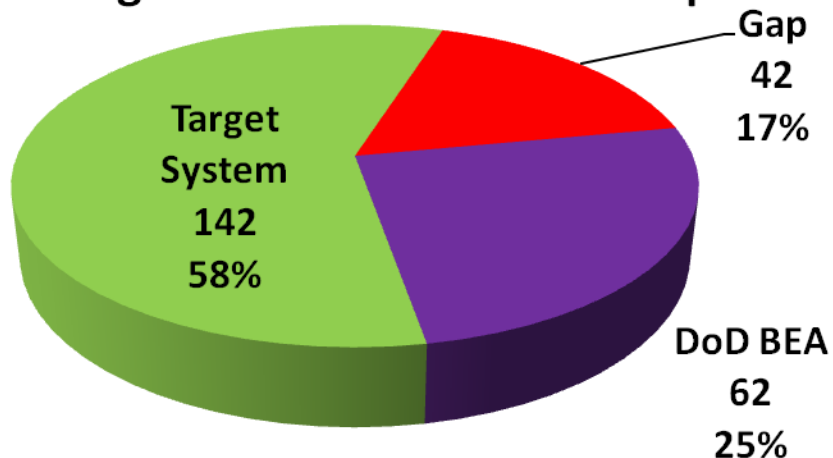
Legacy Environmental Cleanup



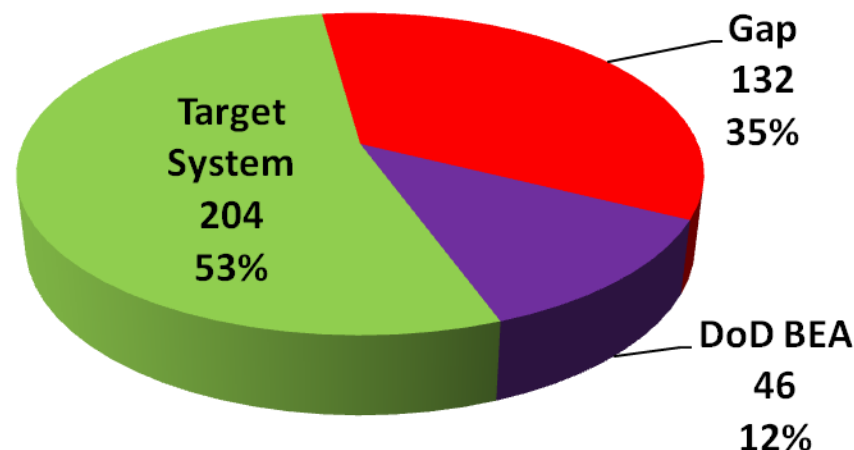
Legacy Environmental Quality



Target Environmental Cleanup



Target Environmental Quality



Gap = New Logical Data Entities (required to support the "To-Be" AEP business processes)